REFERENCES

Berlin, D. A., Gulick, R. M. and Martinez, F. J. (2020) 'Severe Covid-19', *New England Journal of Medicine*. Mass Medical Soc.

Borghuis, A. J., Lemmink, K. A. P. M. and Hof, A. L. (2011) 'Core muscle response times and postural reactions in soccer players and nonplayers', *Medicine & Science in Sports & Exercise*. LWW, 43(1), pp. 108–114.

Castro, H. F. *et al.* (2018) 'Printed Wheatstone bridge with embedded polymer based piezoresistive sensors for strain sensing applications', *Additive Manufacturing*. Elsevier, 20, pp. 119–125.

da Costa, T. D. *et al.* (2019) 'Breathing monitoring and pattern recognition with wearable sensors', in *Wearable Devices-the Big Wave of Innovation*. IntechOpen.

Dhont, S. *et al.* (2020) 'The pathophysiology of 'happy'hypoxemia in COVID-19', *Respiratory Research*. BioMed Central, 21(1), pp. 1–9.

Esposito, D. *et al.* (2018) 'A piezoresistive sensor to measure muscle contraction and mechanomyography', *Sensors*. Multidisciplinary Digital Publishing Institute, 18(8), p. 2553.

Gallagher, D. *et al.* (2000) 'Healthy percentage body fat ranges: an approach for developing guidelines based on body mass index', *The American journal of clinical nutrition*. Oxford University Press, 72(3), pp. 694–701.

Gandhi, R. T., Lynch, J. B. and del Rio, C. (2020) 'Mild or moderate COVID-19', *New England Journal of Medicine*. Mass Medical Soc.

Grepl, J. *et al.* (2015) 'Real time breathing signal measurement: Current methods', *IFAC-PapersOnLine*. Elsevier, 48(4), pp. 153–158.

Huda, W. *et al.* (2011) 'Radiation-related cancer risks in a clinical patient population undergoing cardiac CT', *American Journal of Roentgenology*. Am Roentgen Ray Soc, 196(2), pp. W159–W165.

Ibitoye, M. O. *et al.* (2014) 'Mechanomyography and muscle function assessment: A review of current state and prospects', *Clinical Biomechanics*. Elsevier, 29(6), pp. 691–704.

Janssen, R. *et al.* (2015) 'Video-based respiration monitoring with automatic region of interest detection', *Physiological measurement*. IOP Publishing, 37(1), p. 100.

Johns, D. P., Walters, J. A. E. and Walters, E. H. (2014) 'Diagnosis and early detection of COPD using spirometry', *Journal of thoracic disease*. AME Publications, 6(11), p. 1557.

Kabitz, H.-J. *et al.* (2014) 'The combination of exercise and respiratory training improves respiratory muscle function in pulmonary hypertension', *Lung*. Springer, 192(2), pp. 321–328.

Kuo, W. *et al.* (2014) 'Monitoring cystic fibrosis lung disease by computed tomography. Radiation risk in perspective', *American journal of respiratory and critical care medicine*. American Thoracic Society, 189(11), pp. 1328–1336.

Kusche, R. and Ryschka, M. (2019) 'Respiration monitoring by combining EMG and bioimpedance measurements', in *World Congress on Medical Physics and Biomedical Engineering 2018*. Springer, pp. 847–850.

Larivière, C., Delisle, A. and Plamondon, A. (2005) 'The effect of sampling frequency on EMG measures of occupational mechanical exposure', *Journal of Electromyography and Kinesiology*. Elsevier, 15(2), pp. 200–209.

Loeb, G. E., Loeb, G. and Gans, C. (1986) *Electromyography for experimentalists*. University of Chicago Press.

Lozano-García, M., Sarlabous, L., Moxham, J., Rafferty, G. F., Torres, A., Jolley, C. J., *et al.* (2018) 'Assessment of inspiratory muscle activation using surface diaphragm mechanomyography and crural diaphragm electromyography', in *2018 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)*. IEEE, pp. 3342–3345.

Lozano-García, M., Sarlabous, L., Moxham, J., Rafferty, G. F., Torres, A., Jané, R., *et al.* (2018) 'Surface mechanomyography and electromyography provide non-invasive indices of inspiratory muscle force and activation in healthy subjects', *Scientific reports*. Nature Publishing Group, 8(1), pp. 1–13.

Mehta, M. (2010) 'Performing a respiratory assessment', *Nursing2020 Critical Care*. LWW, 5(3), pp. 45–47.

Merletti, R. and Parker, P. J. (2004) *Electromyography: physiology, engineering, and non-invasive applications*. John Wiley & Sons.

Pan, F. *et al.* (2020) 'Time course of lung changes on chest CT during recovery from 2019 novel coronavirus (COVID-19) pneumonia', *Radiology*. Radiological Society of North America.

Sarkar, M. *et al.* (2015) 'Auscultation of the respiratory system', *Annals of thoracic medicine*. Wolters Kluwer--Medknow Publications, 10(3), p. 158.

Semelka, R. C. *et al.* (2007) 'Imaging strategies to reduce the risk of radiation in CT studies, including selective substitution with MRI', *Journal of Magnetic Resonance Imaging: an Official Journal of the International Society for Magnetic Resonance in Medicine*. Wiley Online Library, 25(5), pp. 900–909.

Simpson, H. (2006) 'Respiratory assessment', *British journal of nursing*. MA Healthcare London, 15(9), pp. 484–488.

Wicaksono, D. H. B. *et al.* (2018) 'Carbon Nanotube-Coated Thread as Sensor for Wearable Mechanomyography of Leg Muscles', in *2018 IEEE SENSORS*. IEEE, pp. 1–4.

Williams, S. *et al.* (2012) 'Kinesio taping in treatment and prevention of sports injuries', *Sports medicine*. Springer, 42(2), pp. 153–164.

Woodward, R. B. *et al.* (2019) 'Segmenting mechanomyography measures of muscle activity phases using inertial data', *Scientific reports*. Nature Publishing Group, 9(1), pp. 1–10.

Zhang, C. *et al.* (2019) 'Effect of Low-Frequency Vibration on Muscle Response under Different Neurointact Conditions', *Applied bionics and biomechanics*. Hindawi, 2019.

Zhao, D. *et al.* (2020) 'A comparative study on the clinical features of COVID-19 pneumonia to other pneumonias', *Clinical Infectious Diseases*.